

# **SONOMAX® HEARING PROTECTION DEVICE**

The SONOMAX SOLUTION™ is a revolutionary hearing protection system composed of reusable earplugs which are custom-fitted, function-tested and calibrated on the spot in a quick and simple process driven by Sonomax's Windows-based support software.

A first in the history of occupational health and safety, the SONOMAX SOLUTION™ is the product deliverable on a mass scale to specifically meet the criteria set out by the National Institute for Occupational Safety and Health (NIOSH) for overcoming barriers to effectiveness of hearing protection devices (HPDs).

**1. HPDS WITH A PERFECT FIT:** Accurate fit is critical to the effectiveness of HPDs; without it, noise will leak into the ear, causing hearing damage. Sonomax's reusable hearing protectors provide a perfect acoustic seal because the earplugs are custom-fitted on site in a simple procedure that eliminates the need for ear impression. This is an important breakthrough, as for the first time it permits delivery of precision, custom-fit HPDs into the industrial workplace on a mass scale. Improper fit has been identified as a factor that explains why some HPDs do not work nearly as well in real-world environments as in the laboratory.

**2. HPDS SO COMFORTABLE, THEY CAN BE WORN 100% OF THE TIME:** Noise-induced damage is irreversible and cumulative. Discomfort has been documented as a factor that reduces the effectiveness of HPDs. People tend to remove HPDs when they cause pain or irritation. This can result in dangerous noise exposure. By contrast, Sonomax hearing protectors, made from soft, hypoallergenic material, fit perfectly without friction points and so can be worn uninterrupted during prolonged exposure to toxic noise.

**3. YOU CAN HEAR PEOPLE TALKING, AND WARNING SIGNALS TOO:** Inability to communicate with co-workers or hear warning signals is another barrier to workplace compliance. To address this challenge, Sonomax HPDs are equipped with sonic filters that allow the user to hear communication without the removal of the hearing protector. Radio communication capability can also be integrated to satisfy more challenging communication requirements.

**4. PROOF OF EFFECTIVENESS IN YOUR HANDS:** After the 15-minute fitting session, the user leaves not just with a brand-new customized set of hearing protectors, but with documented test results showing that the HPDs perform in the field as well as in the laboratory. This ability to quantify or calibrate and track hearing protection performance is an exciting development in the effort to move hearing conservation programs from documentation of hearing loss into pro-active hearing loss prevention.

SONOMAX is a custom made filtered silicone earplug that provides comfortable and effective filtration of toxic noise while permitting conversation and warning signals to be heard.

## **Links:**

[www.sonomax.com](http://www.sonomax.com)

[www.cdc.gov/niosh/98-126f.html](http://www.cdc.gov/niosh/98-126f.html)